

isolating transmission/reception of information by transmitting information with a first polarization and by receiving information with a second polarization.

20. A method according to claim 19, wherein said step of performing at least one of modulating and demodulating information signals includes: using an intermediate frequency of 2-3 GHz.

21. A method according to claim 20, wherein said step of performing at least one of modulating and demodulating information signals further includes a step of: modulating said intermediate frequency using a local oscillator frequency on the order of 18 GHz.

22. A method according to claim 19, wherein said step of performing further includes a step of: modulating information for transmission as a modulated information signal; and splitting said modulated information signal into plural, parallel amplification channels.

23. A method according to claim 22, wherein said modulated information signal is split into four separate amplification channels, said modulated information signal being amplified in each of said four separate amplification channels to produce at least about a 0.5 W output in each of said channels.

24. A method according to claim 23, further including a step of: combining outputs from each of said plural, parallel amplification channels into a single output channel.

25. A method according to claim 19, wherein said step of isolating transmission/reception of information further includes the steps of: transmitting information signals via a transmission antenna; and

receiving information signals via a reception antenna separated by a distance from said transmission antenna.

26. A method according to claim 19, wherein said step of isolating transmission/reception of information, further includes a step of: transmitting information via a dual polarization antenna using a first polarization, and receiving information with a second polarization via said dual polarization antenna.

27. A method according to claim 19, further including a step of: providing a regulated DC output voltage to perform said at least one of modulating and demodulating information signals.

28. A method according to claim 27, further including steps of: providing a second regulated DC output voltage; and inhibiting an output of said regulated DC output voltage when said second regulated DC output voltage is above a predetermined threshold.

29. A transceiver for wireless communication of information, comprising: at least one of a modulator for modulating information and a demodulator for demodulating information; and a dual polarization antenna for transmitting said information with a first polarization, and for receiving information with a second polarization opposite to said first polarization.

30. A transceiver according to claim 29, wherein said at least one of a modulator and a demodulator further includes: a local oscillator for modulating an intermediate frequency of 2-3 GHz with a frequency on the order of 18 GHz.

31. A transceiver according to claim 29, wherein said modulator further includes:

plural, parallel amplification channels.

5 32. A transceiver according to claim 31, further comprising:
at least one coupler for establishing said plural, parallel amplification channels.

33. A transceiver according to claim 31, further comprising:
at least three couplers for establishing said plural, parallel amplification channels,
10 each of said amplification channels producing at least about a 0.5 W output.

34. A transceiver according to claim 32, further comprising:
at least one device for combining outputs of each of said plural, parallel
amplification channels into a single output channel.

15 35. A transceiver according to claim 33, wherein said couplers are 90°
hybrids.

36. A transceiver according to claim 29, wherein said dual polarization
20 antenna includes:

a transmission antenna; and

a reception antenna separated by a distance from said transmission antenna.

37. A transceiver according to claim 29, wherein said dual polarization
25 antenna includes:

a single antenna having a dual polarization capability for transmitting information
with a first polarization, and for receiving information with a second polarization.

38. A transceiver according to claim 29, further including:
30 at least one DC voltage regulator for providing a regulated DC output voltage.

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